

WHAT IS CLAIMED IS:

1. A thin-film magnetic head comprising:

an insulation gap;

first and second yoke layers with one ends and the other ends, respectively, said one ends constituting magnetic poles separated with each other by said insulation gap, said the other ends being magnetically coupled with each other; and

a coil conductor constituted by a plurality of single layer turns, for generating magnetic field and applying the generated magnetic field into said first and second yoke layers,

each turn of said coil conductor comprising a first section, a second section with one end coupled with one end of said first section, and a third section with one end coupled with the other end of said second section,

said first section traveling to pass between said first and second yoke layers in parallel with surfaces of said first and second yoke layers, and to extend over said first and second yoke layers, said second section traveling in a direction perpendicular to the surfaces of said first and second yoke layers in an outside position of said first and second yoke layers, and said third section traveling to pass outside of said first yoke layer in parallel with the surface of the first yoke layer, and to extend over the first yoke layer.

2. The thin-film magnetic head as claimed in claim 1, wherein said first section and said third section of each turn of the coil conductor include a part traveling in a direction parallel to an air bearing surface of the thin-film magnetic head, and a second part traveling in a direction perpendicular to the air bearing surface, respectively.

3. The thin-film magnetic head as claimed in claim 1, wherein said second sections of turns of the coil conductor are arranged with keeping the same space from an air bearing surface of the thin-film magnetic head.

4. The thin-film magnetic head as claimed in claim 3, wherein said second sections are located outside of said other ends of said first and second yoke layers.

5. The thin-film magnetic head as claimed in claim 1, wherein said second sections of turns of the coil conductor are arranged with keeping different spaces from an air bearing surface of the thin-film magnetic head, respectively.

6. The thin-film magnetic head as claimed in claim 5, wherein the spaces from the air bearing surface, of said second sections become shorter with distance from said first

and second yoke layers.